Luetkemeyer Farms
MOG010650
Ralls County

STATE OF MISSOURI
Matt Blunt, Governor • Doyle Childers, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

August 18, 2006

Mr. David Luetkemeyer
833 Windmill Drive
Ballwin, MO 63011

Dear Mr. Luetkemeyer:

Enclosed please find your Construction Permit Number 3523 for a no-discharge animal feeding operation manure management system. No-discharge means that the entire system from storage through final land application has been designed to operate without discharges to waters of the state.

This approval is for the construction of one new 2,490 head finishing building over a deep pit based on the engineering plans and specifications approved by the program. Additional conditions are contained in the construction permit.

This approval does not authorize operation of these systems. When system construction is completed:

1. Part one of the enclosed application Form F should be filled out and signed by the owner;
2. Part two of the form, engineer's certification of the constructed project, should be completed by the engineer;
3. The completed form with any construction changes noted and as-built plans should then be submitted to the Water Protection Program for an operating permit for the system.

If you were affected by this decision, you may appeal to have the matter heard by the administrative hearing commission. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission.

Please feel free to contact Darrick Steen at (573) 751-1403 or P.O. Box 176, Jefferson City, Missouri 65102 if we can be of further assistance.

Sincerely,

WATER PROTECTION PROGRAM

Robert Morrison, P.E., Chief
Water Pollution Control Branch

RM:dsn

Enclosure

c: Otto Alber, NRCS
Northeast Regional Office

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:

David Luetkemeyer

for the construction of (described facilities):

One 2,490 head finishing building over a deep pit

Permit Conditions:

See attached sheets

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources.

As the Department of Natural Resources does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the department may inspect the work covered by this permit during construction. Issuance of a permit to Operate by the department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

August 18, 2006
Effective Date

August 17, 2007
Expiration Date

Doyle Childers, Director, Department of Natural Resources

Executive Secretary, Clean Water Commission

Edward Galbraith, Director of Staff, Clean Water Commission

Attachment A

Construction Permit No. 3523
Operating Permit No. MO-G010650

DETAILED OPERATION DESCRIPTION
For Concentrated Animal Feeding Operations
Construction Permit

FACILITY INFORMATION

Operation: Luetkemeyer Farms Class: II
Operation Address: 833 Windmill Drive Ballwin, MO 63011

Owner: David Luetkemeyer
Owner Address: 833 Windmill Drive Ballwin, MO 63011

Continuing Authority: David Luetkemeyer
Continuing Authority Address: 833 Windmill Drive Ballwin, MO 63011

Primary SIC Code (Discharge): 0213 Primary SIC Code (Industry): 0213

DESIGN APPROVED FOR THIS OPERATION

Number and Type of Animals: 2,490 swine over 55 lbs
Animal Units: 996
Total Design Flow (gpd): 3,273
Land Application Acres -
Owned: 284.8 Under Spreading Agreement: 0 Total: 284.8
Land Application Equipment: Tank wagon
Mortality Management: Compost

Feature #001:
Feature Description: Concrete Storage Pit
Legal Description: SE ¼, Sec. 32, T56N, R7W, Ralls County
Latitude: 39° 36' 09.0" N Longitude: -91° 42' 08.5" W
Receiving Water: Unnamed Trib. Mark Twain Lake
First Classified Stream and ID: Mark Twain Lake 7033 (L2)
USGS Basin & Sub-Watershed No: 07110007-020001
Number and Type of Animals: 2,490 swine over 55 lbs
Animal Units: 966
Storage Structure Type: Underfloor Pits
Storage structure size (at overflow level) -
Surface Area (sq. ft.): 18,967 Total Depth (ft.): 8.0 Total Storage Capacity (gal.): 1,135,037
Storage structure operating levels -
Upper pumpdown level: 1.0 (feet below overflow)
Area draining into storage basin (acres): 0.0
Design Storage Below Upper Pumpdown Level (days) - 303
Wastewater Volume (gal/yr.) – 1,194,778
Biosolids Volume (tons/yr.): 14

	Land Area	Nitrogen	Avg. Year	1 in 10 Year
Wastewater Application Rates:	(acres)	(lb./acre/yr.)	(in.)	(in.)
Conservative [1]	374	100	0.12	0.12
Plant Available Nitrogen [2]	**	**	**	**
Biosolids Application Rates:	(acres)	(lb./acre/yr.)	(tons/acre)	(tons/acre)
Conservative [1]	5.0	100	2.8	2.8
Plant Available Nitrogen [2]	**	**	**	**

Additional Operational Description:
A swine finishing operation consisting of one barn with a capacity of 2,490 swine over 55 lbs. The barn will utilize deep underfloor concrete pits for manure storage. Swine mortalities are composted onsite.

[1] The application rate for Conservative Management approach is an estimate based on industry averages for nitrogen content for small sized livestock operations as reported by University of Missouri Extension Service (Manual 115 published in 1979). Actual nitrogen content for any individual operation may vary significantly from the estimated value.

[2] The Plant Available Nitrogen (PAN) approach is required if application rates will exceed the conservative approach or if supplemental commercial fertilizer will be applied to these sites during the same cropping year as manure applications. The actual manure volume and nitrogen application rates should be adjusted for each application period based on: (a) the hydraulic capacity of the soil, (b) nitrogen fertilizer requirements of crops to be grown, and (c) current nutrient testing results for soils and applied wastes. Nitrogen availability factors for the PAN method shall be in accordance with Livestock Waste Facilities Handbook, Midwest Plan Service publication MWPS-18, April 1993; Agricultural Waste Management Field Handbook, USDA Natural Resource Conservation Service (NRCS), April 1992 and subsequent supplements; and Plant Available Nitrogen Procedure, Missouri Department of Natural Resources, Water Pollution Control Program, February 24, 2006. A copy of PAN worksheets, testing results and crop information must be submitted with the annual report.

Attachment B

Construction Permit No. 3523
Operating Permit No. MO-G010650

SECTION A. GENERAL CONSTRUCTION CONDITIONS

(1) Additional construction specifications contained in the application and engineering plans and standard specifications shall be followed.

(2) This permit does not authorize operation of these manure management systems. The Missouri Department of Natural Resources should be notified of completion of construction.

(3) Issuance of a permit for operation of these systems will be contingent on the work substantially adhering to the approved plans and specifications.

(4) All cleanouts installed at the approved operation shall be clearly marked with a post that is visible during all stages of vegetative growth.

(5) As the Missouri Department of Natural Resources does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

SECTION B. COMPOSTERS

It is recommended that composters be installed over a compacted earthen pad or other impervious floor. The minimum seal thickness for an earthen pad should be twelve (12) inches. The seal should be installed in six (6) inch layers and compacted to 95% standard proctor density. Compaction by a bulldozer will usually not be adequate to achieve the desired density. Runoff from an unroofed composter should flow through an adequately sized soil plant filter.

SECTION C. SPECIAL CONDITIONS

Records of dry litter/manure testing, land application and management practices will be kept on file at the operation for at least five years. The records shall include: 1. The name and address of the person making the land application, 2. The contract spreader or person purchasing the litter/manure, 3. The date it was received or applied, 4. The volume received or applied, 5. The number of acres used for spreading, and 6. The nitrogen application rate per acre with computations how application rate was determined. The contract spreader and litter/manure receiver shall be furnished a copy of this permit and shall comply with all land application requirements in the permit.